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1 [DLFM: a transactional resource manager](#)
[Huei Hsiao, Indarpal Narang](#)

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Publisher: ACM [Request Permissions](#)

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Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 38, Citation

The DataLinks technology developed at IBM Almaden Research Center introduces a new data type called DATALINK for a database to reference to the database. An external file is put under ...

Also published in:

 June 2000 **SIGMOD Record** Volume 29 Issue 2

2 [Computation & communication in R: a distributed database manager](#)
[Bruce G. Lindsay, Laura M. Haas, Paul F. Wilms, Robert A. Yost](#)

 December 1983 **SOSP '83**: Proceedings of the ninth ACM symposium on Operating systems

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R* is an experimental prototype distributed database management system. R* is structured as a sequence of multisite user transactions in R* is structured as over virtual circuit communication ...

Also published in:

 December 1983 **SIGOPS Operating Systems Review** Volume 17 Issue 5

3 [Transactional publish/subscribe: the proactive multicast of database](#)
[Arvola Chan](#)

 June 1998 **SIGMOD '98**: Proceedings of the 1998 ACM SIGMOD international conference on Management of data

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (106.55 KB)

Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 54, Citation

For many years, TIBCO (the Information Bus Company) has pioneered t

form of push technology — to build flexible, real-time loosely-coupled d
Publish/Subscribe is used by 300 of the ...

Keywords: event-driven, guaranteed delivery, multicast, publish.subscribe
addressing, transactionally guaranteed delivery

Also published in:


June 1998 **SIGMOD Record** Volume 27 Issue 2

4 A new approach to developing and implementing eager database replication

 Bettina Kemme, Gustavo Alonso

September 2000 **Transactions on Database Systems (TODS)**, Volume 25

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (449.43 KB)


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Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 226, Citations

Database replication is traditionally seen as a way to increase the availability of
distributed databases. Although a large number of protocols providing distributed
have been proposed, few of these ideas have ...


Keywords: database replication, fault-tolerance, group communication
serializability, replica control, total error multicast

5 OLTP through the looking glass, and what we found there

 Stavros Harizopoulos, Daniel J. Abadi, Samuel Madden, Michael Stonebraker

June 2008 **SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on data**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (308.68 KB)

[Additional Information: full citation, abstract,](#)

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Online Transaction Processing (OLTP) databases include a suite of features
heap files, locking-based concurrency control, support for multi-threaded
computer technology of the late 1970's. Advances ...


Keywords: dbms architecture, main memory transaction processing, o

6 H-store: a high-performance, distributed main memory transaction processing

Robert Kalman, Hideaki Kimura, Jonathan Natkins, Andrew Pavio, Alexander C. Jones, Samuel Madden, Michael Stonebraker, Yang Zhang, John Hugg, et al.

August 2008 **Proceedings of the VLDB Endowment**, Volume 1 Issue 2


Publisher: VLDB Endowment

Full text available:  Pdf (504.31 KB)

[Additional Information: full citation, abstract,](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 71, Citations

Our previous work has shown that architectural and application shifts have
databases increasingly falling short of optimal performance [10]. In particular,
cores, the abundance of main memory, the ...



- 7 [An integrated approach to recovery and high availability in an update](#)
 Edmond Lau, Samuel Madden
 September 2006 **VLDB '06**: Proceedings of the 32nd international conference
Publisher: VLDB Endowment
 Full text available:  Pdf (669.84 KB) [Additional Information: full citation, abstract,](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 179, Citations

Any highly available data warehouse will use some form of data replication. In this paper, we demonstrate that we can leverage this data redundancy for recovery and high availability. Our approach, ...

- 8 [Computing curricula 2001](#)
 [CORPORATE The Joint Task Force on Computing Curricula](#)
 September 2001 **Journal on Educational Resources in Computing (JER)**
Publisher: ACM [Request Permissions](#)
 Full text available:  Html (2.78 KB),  Pdf (613.63 KB) [Additional Information: full citation,](#)




Bibliometrics: Downloads (6 Weeks): 105, Downloads (12 Months): 1146, Citations

- 9 [MIDDLE-R: Consistent database replication at the middleware level](#)
 Marta Patiño-Martínez, Ricardo Jiménez-Peris, Bettina Kemme, Gustavo Alonso
 November 2005 **Transactions on Computer Systems (TOCS)**, Volume 23
Publisher: ACM [Request Permissions](#)
 Full text available:  Pdf (1.81 MB) [Additional Information: full citation, abstract,](#)



Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 126, Citations

The widespread use of clusters and Web farms has increased the importance of replication. In this article, we show how to implement consistent and scalable data replication by combining transactional concurrency control and replication. ...

Keywords: Database replication, eager data replication, middleware, replication



- 10 [Communications of the ACM: Volume 51 Issue 7](#)
 July 2008 Communications of the ACM
Publisher: ACM
 Full text available:  Digital Edition,  Pdf (6.54 MB) [Additional Information: full citation,](#)

Bibliometrics: Downloads (6 Weeks): 3440, Downloads (12 Months): 6437, Citations



- 11 [Transaction support for indexed summary views](#)
 Goetz Graefe, Michael Zwilling
 June 2004 **SIGMOD '04**: Proceedings of the 2004 ACM SIGMOD international conference on database management
Publisher: ACM [Request Permissions](#)
 Full text available:  Pdf (168.70 KB) [Additional Information: full citation, abstract,](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 47, Citations



Materialized views have become a standard technique for performance improvement in databases and for a variety of monitoring purposes. In order to avoid inconsistent query results, materialized views and their maintenance must be updated. ...

12 [Queue: Volume 6 Issue 3](#)May 2008 [Queue](#) **Publisher:** ACMFull text available:  [Digital Edition](#) ,  [Pdf \(5.56 MB\)](#) Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 62, Downloads (12 Months): 649, Citatio**13** [The end of an architectural era: \(it's time for a complete rewrite\)](#)Michael Stonebraker, Samuel Madden, Daniel J. Abadi, Stavros Harizopoulos
September 2007 **VLDB '07: Proceedings of the 33rd international conference****Publisher:** VLDB EndowmentFull text available:  [Pdf \(445.58 KB\)](#) Additional Information: [full citation](#), [abstract](#),**Bibliometrics:** Downloads (6 Weeks): 32, Downloads (12 Months): 257, Citatio

In previous papers [SC05, SBC+ 07], some of us predicted the end of "c relational DBMS paradigm. These papers presented reasons and experier the major RDBMS vendors can be outperformed by ...

14 [Recovery guarantees for Internet applications](#) Roger Barga, David Lomet, German Shegalov, Gerhard WeikumAugust 2004 **Transactions on Internet Technology (TOIT)** , Volume 4 Issu**Publisher:** ACM Full text available:  [Pdf \(997.52 KB\)](#) Additional Information: [full citation](#), [abstract](#),**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 147, Citatio


Internet-based e-services require application developers to deal explicit software components, for example web servers, servlets, browser sessi application programming, and may expose ...

Keywords: Exactly-once execution, application recovery, communicati**15** [Transactional collection classes](#) Brian D. Carlstrom, Austen McDonald, Michael Carbin, Christos Kozyrakis, JMarch 2007 **PPoPP '07: Proceedings of the 12th ACM SIGPLAN symposium parallel programming****Publisher:** ACM Full text available:  [Pdf \(256.98 KB\)](#) Additional Information: [full citation](#), [abstract](#),**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 61, Citation

While parallel programmers find it easier to reason about large atomic r exclusion-based primitives for synchronization force them to interleave performance. Transactional memory promises ...

Keywords: Java, collection classes, multiprocessor architecture, transa**16** [Consistent and scalable cache replication for multi-tier J2EE applica](#)Francisco Perez-Sorrosal, Marta Patiño-Martínez, Ricardo J. Amenez-Peris, Be
November 2007 **Middleware '07: Proceedings of the ACM/IFIP/USENIX 20(****Middleware**

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (8.29 MB)

Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 24, Citation

Data centers are the most critical infrastructure of companies demanding quality of service (QoS) in terms of availability and scalability. At the co-architectures providing service to applications. ...


Keywords: caching, fault-tolerance, reliability, replication, scalability o

17 [Concurrency control in hierarchical multidatabase systems](#)

Sharad Mehrotra, Henry F. Korth, Avi Silberschatz

May 1997 **The VLDB Journal — The International Journal on Very L**

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (418.55 KB)


Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 65, Citation

Over the past decade, significant research has been done towards developing algorithms for multidatabase systems. Most of this work assumes a multidatabase system with a single software module that ...

Keywords: Concurrency control, Database management, Distributed database management

18 [Relaxed-currency serializability for middle-tier caching and replication](#)

 Philip A. Bernstein, Alan Fekete, Hongfei Guo, Raghu Ramakrishnan, Pradeep June 2006 **SIGMOD '06: Proceedings of the 2006 ACM SIGMOD international data**

data

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (418.33 KB)


Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 120, Citation

Many applications, such as e-commerce, routinely use copies of data from the database due to heuristic caching strategies used to enhance performance for a transactional model that allows update transactions ...


Keywords: caching, database, freshness constraint, replication, serializ

19 [TOPS: a new design for transactions in publish/subscribe middleware](#)

 Yosef Shatsky, Ehud Gudes, Ehud Gudes

July 2008 **DEBS '08: Proceedings of the second international conference on distributed systems**

Publisher: ACM

Full text available:  Pdf (257.26 KB)

Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 103, Citation

Publish/subscribe is a common messaging paradigm used for asynchronous

applications. Synchronous publish/subscribe middleware exist but are le
address two main performance difficulties, the first being ...

Keywords: middleware, publish-subscribe, replication, transactions

- 20 Deploying and managing Web services: issues, solutions, and direct
Qi Yu, Xumin Liu, Athman Bouguettaya, Brahim Medjahed
May 2008 **The VLDB Journal — The International Journal on Very L**
Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (903.96 KB)

Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 141, Downloads (12 Months): 1858, Citi

Web services are expected to be the key technology in enabling the nex
form of the Service Web. In this paradigm shift, Web services would be

Keywords: Interoperability, Service-oriented computing, Web service r

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